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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/934,479	08/23/2001	Yoko Fujiwara	018656-241	8426

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Platon N. Mandros
BURNS, DOANE, SWECKER & MATHIS, L.L.P.
P.O. Box 1404
Alexandria, VA 22313-1404

EXAMINER

BRIER, JEFFERY A

ART UNIT

PAPER NUMBER

2672

DATE MAILED: 07/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/934,479

Applicant(s)

FUJIWARA ET AL.

Examiner

Jeffery A. Brier

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:
at page 21 line 13 "application software" has been misspelled as "applicaiton software".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukui et al., U.S. Patent No. 5,179,650.

Both applicant's system and Fukui's system scans a newspaper or similar document, analyzes the document's characters, drawings, and photos, alters the block containing the characters, and alters the layout of the characters in the altered block.

A detailed analysis of the claims follows.

Claim 1:

Fukui teaches an image processing device (*see figure 1*) comprising:
extraction means (*scanner 10, column 3 lines 17-24 describes input unit 10 as a scanner*) for extracting a document block containing a

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specific image (column 3 lines 17-24 further describes article data which is character data, graphic data and image data) from among image data to be processed;

recognition means for recognizing character code from a character image within the document block (step 103 extracts numeral codes and other character like codes, column 4 lines 43-44, in Fukui's system scanner 10 scans the image of the document in order to be able to perform the analysis of the image data to determine key word and number of letters, character codes would have to be known for the article data, column 8 lines 11-28);

reconstruction means for reconstructing the document block in a specific shape (figures 15A, 15B, and 15C illustrates reconstructing the article block to better fit the document page, figure 2b illustrates a flowchart depicting the processing performed in the means of figure 1 for determining the layout article block); and

layout means for laying out character code data corresponding to the character code recognized by the recognition means within the reconstructed document block (the article data represented by numeral codes, character codes, is laid out to fit the reconstructed article block).

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Claim 2:

Fukui teaches an image processing device as claimed in claim 1, wherein

the extraction means extracts a plurality of document blocks (*column 3 lines 27-43 describes the many blocks in the image, titles, headers, articles, sections*), and

the reconstruction means arranges the plurality of extracted document blocks into a single block (*see figures 15A, 15B, and 15C*) reconstructed to a specific shape (*one page of the document*).

Claim 3:

Fukui teaches an image processing device as claimed in claim 1, wherein the specific image includes a character image of a headline (*title*) and a character image of body text (*article corresponding to the title*) corresponding to the headline.

Claim 4:

Fukui teaches an image processing device as claimed in claim 3, further comprising headline character (*title*) arrangement means (*steps 115-118*) for arranging character code data corresponding to the character image of the headline at a specific position within the reconstructed document block.

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Claim 5:

Fukui teaches an image processing device as claimed in claim 1, wherein the reconstruction means adjusts a vertical or horizontal dimension (*figures 15A, 15B, and 15C show one long column becoming two columns of the same vertical and horizontal dimensions*) of the document block to a length approximating a natural integer multiple of a length (*vertical or horizontal*) of one column of multiple columns formed within the document block.

Claim 6:

Fukui teaches an image processing device as claimed in claim 1, further comprising file generation means for generating an electronic file storing the character code data laid out by the layout means (*display unit 90 displays the output of step 119, since figure 2b performs many processes on many characters, see step 113, before step 119 occurs an electronic file for storing the character codes is needed to accumulate the results of the steps 111-118*).

Claim 7:

Fukui teaches an image processing device as claimed in claim 1, further comprising a printer (*column 4 line 13*) for printing the character code data laid out by the layout means (*column 7 lines 64-68*) on recording substrate (*inherently the*

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printer prints on paper which is a recording substrate since the paper maintains the image of the characters).

Claim 8:

Fukui teaches an image processing device as claimed in claim 1, further comprising a reader (column 3 line 23 describes data input unit 10 as a scanner which inherently is a reader of images on a substrate) for optically reading (since the documents scanned are readable by humans then the scanner is optical) an image (*illustrated in figures 3A, 3B and 3C*) of a document to obtain the image data to be processed.

Claim 9:

Claim 9 is a program for causing a computer to execute image processing claim which corresponds to image processing device claim 1 and claims the same functions that claim 1 claims, thus, claim 9 is rejected for the reasons given for claim 1. This application is directed to computers, see column 1 lines 17-25, additionally Fukui's figure 1 illustrates a computer since it computes and the flowcharts illustrated in Fukui's figures 2a and 2b represent a program that controls the computer of figure 1.

Claims 10-16:

Claims 10-16 correspond respectively to claims 2-8, thus, claims 10-16 are rejected for the reasons given for claims 2-8.

Claim 17:

Claim 17 is an image processing method claim corresponding to the functions performed by computer program claim 9 and image processing device claim 1, thus, claim 17 is rejected for the reasons given for claims 1 and 9.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ericson et al., U.S. Patent Application Publication No. 2002/0044134, and Kurosawa et al., U.S. Patent No. 6,466,954, teach document layout.

The Japanese document cited by applicant, 03-014184, is very pertinent to this application, when making claim amendments applicant should ensure that such amended claims are not covered by this reference.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A. Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



Jeffery A Brier
Primary Examiner
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